

03050104-050*(Sawneys Creek)***General Description**

Watershed 03050104-050 is located in Fairfield and Kershaw Counties and consists primarily of *Sawneys Creek* and its tributaries. The watershed occupies 37,265 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Herndon-Georgeville-Tatum-Helena series. The erodibility of the soil (K) averages 0.43 and the slope of the terrain averages 10%, with a range of 2-25%. Land use/land cover in the watershed includes: 89.8% forested land, 7.6% agricultural land, 0.6% urban land, 1.2% scrub/shrub land, 0.7% forested wetland (swamp), and 0.1% water.

Sawneys Creek originates near the Town of Ridgeway and drains into the Wateree River. Thorntree Creek and Bee Branch drain into Sawneys Creek. There are a total of 104.9 stream miles and 36.9 acres of lake waters in this watershed, all classified FW.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
CW-075	BIO	FW	THORNTREE CREEK AT S-20-258
CW-228	P/W/BIO	FW	SAWNEYS CREEK AT S-20-151
CW-079	W/INT	FW	SAWNEYS CREEK AT S-28-37

Thorntree Creek (CW-075) - Aquatic life uses are fully supported based on macroinvertebrate community data.

Sawneys Creek - There are two SCDHEC monitoring sites along Sawneys Creek. At the upstream site (*CW-228*), aquatic life uses are fully supported based on macroinvertebrate community data. Significant decreasing trends in five-day biochemical oxygen demand, turbidity, and total nitrogen concentration suggest improving conditions for these parameters. There is a significant increasing trend in pH. Recreational uses are not supported at this site due to fecal coliform bacteria excursions.

At the downstream site (*CW-079*), aquatic life uses are fully supported and significant decreasing trends in five-day biochemical oxygen demand and turbidity suggest improving conditions for these parameters. Recreational uses are partially supported at this site due to fecal coliform bacteria excursions.

Natural Swimming Areas

FACILITY NAME
RECEIVING STREAM

PERMIT #
STATUS

CAMP LONGRIDGE
THORNTREE CREEK TRIBUTARY

20-N01
ACTIVE

Nonpoint Source Management Program

Land Disposal Activities

Land Applications

LAND APPLICATION
FACILITY NAME

PERMIT #
TYPE

SPRAYFIELD
FAIRFIELD HEALTHCARE CENTER

ND0067008
DOMESTIC

Growth Potential

There is a low potential for growth in this watershed, which contains a portion of the Town of Ridgeway. The only available water service extends along SC 34 east of Ridgeway to the Ridgeway Gold Mine, which is scheduled to close.

Watershed Protection and Restoration

Total Maximum Daily Loads (TMDLs)

A TMDL was developed by SCDHEC and approved by EPA for *Sawneys Creek* water quality monitoring sites CW-228 and CW-079 to determine the maximum amount of fecal coliform bacteria it can receive from nonpoint sources and still meet water quality standards. The primary sources of fecal coliform to the stream were determined to be failed septic systems and cattle-in-stream. The TMDL states that a 73-78% reduction in fecal coliform loading from these sources is necessary for the stream to meet the recreational use standard. For more detailed information on TMDLs, please visit the SCDHEC's Bureau of Water homepage at <http://www.scdhec.gov/water> and click on "Watersheds and TMDLs" and then "TMDL Program".